

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A rear cushion installation structure of a low floor vehicle, in which comprising:

a body cover for covering a vehicle body that comprises a low floor which has a step floor for putting feet of a rider thereon, and an engine mounted below the low floor, the engine being connected to an intake system, comprising:

a body frame comprising a head pipe, a front upper part, a rear upper part, and a swing arm pivot, wherein the front upper part and rear upper part extends from the head pipe substantially along a straight line passing through the a central point of the head pipe and the swing arm pivot point and wherein the rear upper part of the body frame has a reduced degree of downward inclination relative to the front upper part of the body frame,

a rear cushion for a rear wheel arranged in the a center of the vehicle body horizontally on the rear upper part of the body frame,

a seat mounted on the rear upper part of the body frame, and

a housing box having a bottom surface and defining a housing space above the bottom surface, the housing box arranged under the seat with a longitudinal length substantially equal to the a longitudinal length of the an underside of the seat, the bottom surface of the housing box positioned adjacent to the rear cushion,

a lid provided at the bottom of the housing box for checking the rear cushion, and
wherein the rear cushion for the rear wheel is transversely arranged under the housing box and
wherein the engine and intake system are arranged in a space below the straight line passing
through the a central point of the head pipe and the swing arm pivot point.

2. (Cancelled)

3. (Currently Amended) The rear cushion installation structure of claim 1, wherein the body frame comprises a diamond frame composed of an upper frame extended backward and downward from a the head pipe and a down frame extended downward from the

head pipe;

the engine is suspended by the diamond frame; and

the rear cushion is arranged along ~~the a~~ rear of the upper frame.

4. (Previously Presented) The rear cushion installation structure of claim 3, wherein
the engine is connected to the diamond frame, and
the rear cushion is attached to the rear of the upper frame.

5. (Currently Amended) A rear cushion and seat structure of a low floor vehicle, ~~in which~~
comprising:

a body cover for covering a vehicle body ~~that~~ comprises a low floor which has a step
floor for putting the feet of a rider thereon, and an engine mounted below the low floor, ~~the~~
engine being connected to an intake system, comprising:

a body frame comprising right and left upper frames extending backward and downward
from ~~the an~~ upper side of a head pipe substantially along a straight line passing through the a
central point of the head pipe and the swing arm pivot point, the upper frames including front
parts and rear parts, wherein the rear parts include a reduced degree of downward inclination
relative to the front parts,

and right and left lower frames extending downward from ~~the a~~ lower side of a head pipe,
the upper and lower frames being coupled to the engine,

a cylinder portion of the engine being positioned between the upper frames,

a rear cushion for a rear wheel attached horizontally to the upper frames so as to extend
along the rear part parts of the upper frames,

a seat mounted on the rear part parts of the upper frames, and

a housing box having a bottom and arranged under the seat with a longitudinal length
substantially equal to ~~the a~~ longitudinal length of the an underside of the seat, the bottom of the
housing box positioned adjacent to the rear cushion~~[,]~~ and including a lid for checking the rear
cushion,

wherein the rear cushion is horizontally arranged under the housing box and wherein the
engine and the intake system is arranged below the straight line passing through the a central
point of the head pipe and the swing arm pivot point.

6. (Cancelled)
7. (Currently Amended) The rear cushion and seat structure of claim 5, wherein the rear cushion is in the center of the vehicle body of the low floor vehicle.

8-11. (Cancelled)

12. (New) A low floor vehicle comprising:
 - a body cover for covering a vehicle body, the body cover including a low floor for supporting feet of a rider thereon, and an engine mounted at least partially below the low floor, the engine being connected to an intake system;
 - a body frame comprising a head pipe, an upper frame and a swing arm pivot, the upper frame including a front part and a rear part, the upper frame extending generally along a downwardly angled reference line that extends from a central region of the head pipe to the swing arm pivot, the front part of the upper frame being oriented at a steeper downward angle than rear part of the upper frame,
 - a swing arm connected to the body frame at the swing arm pivot;
 - a rear shock absorber for a rear wheel of the vehicle, the rear shock absorber being mounted between the rear part of the upper frame and the swing arm, and the rear shock absorber extending generally in a front to rear direction;
 - a seat mounted on the rear part of the upper frame;
 - a storage compartment mounted beneath the seat, the storage compartment having a bottom surface, the storage compartment defining a storage volume above the bottom surface and beneath the seat, and the rear shock absorber extending generally along an underside of the bottom surface of the storage compartment;
 - an access panel defining at least a portion of the bottom surface of the storage compartment, the access panel being removable to provide access to the rear shock absorber; and wherein the engine and intake system are arranged in a space below the upper frame.